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DNAL SEARCH REPORT INTERN

3 03/04788

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 C22C26/00 B22F7/06

B01J3/06

B24D3/06

E21B10/56

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols) IPC 7 C22C B22F B01J B24D E21B

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ

C. DOCUM	ENTS CONSIDERED TO BE RELEVANT	
Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 4 525 178 A (HALL DAVID R) 25 June 1985 (1985-06-25) column 1, line 3 - line 22; figures 2,3 column 4, line 52 - line 58	1-10
X Y	US 5 697 994 A (PACKER SCOTT M ET AL) 16 December 1997 (1997-12-16) column 6, line 3 - line 32	1-10 11-13
Y	DATABASE WPI Section Ch, Week 200170 Derwent Publications Ltd., London, GB; Class L02, AN 2001-609219 XP002269004 & JP 2001 187431 A (SUMITOMO ELECTRIC IND CO), 10 July 2001 (2001-07-10) abstract	11

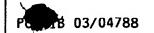
X Further documents are listed in the continuation of box C.	Patent family members are listed in annex.
 Special categories of cited documents: "A" document defining the general state of the art which is not considered to be of particular relevance "E" earlier document but published on or after the international filling date "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other means "P" document published prior to the International filling date but later than the priority date claimed 	 "T" later document published after the International filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art. "&" document member of the same patent family
Date of the actual completion of the International search 4 February 2004	Date of mailing of the international search report 13/02/2004
Name and mailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2 NL – 2280 HV Rijswijk Tel. (+31–70) 340–2040, Tx. 31 651 epo nl, Fax: (+31–70) 340–3016	Authorized officer Ashley, G

INTERNATIONAL SEARCH REPORT

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Y	US 4 960 643 A (LEMELSON JEROME H) 2 October 1990 (1990-10-02) column 3, line 52 - line 64; figure 1		12,13
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